Attorney Docket No.: SAM-0487 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Seung-hoon Lee

For (title):

MAIN WORD LINE DRIVER CIRCUIT RECEIVING NEGATIVE **VOLTAGE IN SEMICONDUCTOR**

MEMORY DEVICE

1.	Type of Application This new application is for	
	a(n)	

Original	(nonprov	isional)
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Design

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	Continuation	
LI	Continuiation	

☐ Continuation-in-part (C-I-P).

Benefit of Prior Application(s)

The new application being transmitted claims the benefit of prior Korean application no. 03-7413. See Item 7.

3. **Papers Enclosed**

9	Pages of specification
_1	Pages of claims
1	Page of Abstract
5	Sheets of drawings
	☐ informal

Page of Cover Sheet

"Express Mail" Mailing Label Number EV322657004US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

		e enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT IOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).								
4.	Addit	ional _l	papers (enclosed						
		Preli	iminary	Amendment						
	\boxtimes		-	Disclosure Statement (37 C.F.R. 1.98)						
	\boxtimes	Form	PTO-1	449 (PTO/SB/08A and 08B)						
	\boxtimes	Copi	es of cite	ed references						
		Decla	aration o	of Biological Deposit						
				of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for y invention containing nucleoticle and/or amino acid sequence.						
		Auth	orizatio	on of Attorney(s) to Accept and Follow Instructions from Representative						
		Spec	ial Com	iments						
	\boxtimes	Othe	r: Retur	n Postcard.						
5.	Dec	laratio	on or oa	th						
	\boxtimes	Encl	osed	·						
			Unexec	uted						
		\boxtimes	Execute	ed by						
			\boxtimes	inventors						
				legal representative of inventor(s). 37 CFR 1.42 or 1.43.						
				joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.						
				This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 12 below for fee.						
		Not :	Enclose	d						
			ication i	s made by a person authorized under 37 C.F.R. 1.41 (c) on behalf of all the above named						
				Showing that the filing is authorized.						
6.	Assig	nment								
	\boxtimes	An as	ssignme	nt of the invention to Samsung Electronics Co., Ltd.						
			-	ed. A separate "COVER SHEET FOR ASSIGNMENT (DOCUMENT)						
			ACCOM	IPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.						
			□ will	follow.						

7. Certified Copy

Certified copy(ies) of application(s)

Korea	03-7413	February 6, 2003
Country	Appln. no.	Filed
Country	Appln. no.	Filed
Country	Appln. no.	Filed

from which priority is claimed

- is (are) attached.
- □ will follow.

8. Fee Calculation (37 C.F.R. 1.16)

			CLA	AIMS AS FILED		
	Number f	iled		Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$770.00
Total Claims (37 CFR 1.16(c))	6	- 20 =		0	\$ 18.00	
Independent Claims (37 CFR 1.16(b))	1	- 3 =		. 0	\$ 86.00	
Multiple dependent claim(if any (37 CFR 1.16(d))	s),			+	\$290.00	

A Prelimin	nary Ai	mendn	nent car	icelin	g cla	ims i	eno	close	d. Th	e filin	g fee	is c	alculated	based	l on
the number	r of cla	ims re	maining	g after	entr	y of 1	he I	Preli	minary	/ Ame	ndme	nt.		•	
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- \square Amendment deleting multiple-dependencies is enclosed.
- ☐ Fee for extra claims is not being paid at this time.

Filing Fee Calculation

\$770.00

9. Fee Payment Being Made at This Time

- □ Not Enclosed
- ☐ No filing fee is to be paid at this time.

(This and the surcharge required by 3 7 C. F.R. 1.16(e) can be paid subsequently.)

	Basic filing fee		\$_770.00
	Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FACCOMPANYING NEW APPLI		\$_40.00
	Total fees en	nclosed	\$ 810.00
10.	Method of Payment of Fees		
	\boxtimes Checks in the amounts of \$\frac{77}{2}\$	0.00 and \$40.00	·
	Charge Account No. 50-1798 A duplicate of this transmittal is		\$
11.	Authorization to Charge Additional Fe	es	
	☐ The Commissioner is hereby authorize of this application to Account No. 50-	•	ving additional fees during the entire pendency
	⊠ 37 C.F.R. 1.16(a), (f) or (g) (filin	ng fees)	
	⊠ 37 C.F.R. 1.16(b), (c) and (d) (p		aims)
	☐ 37 C.F.R. 1. 1 6(e) (surcharge for filing date of the application)	or filing the basic filing	g fee and/or declaration on a date later than the
	☐ 37 C.F.R. 1.17 (application prod	essing fees)	
	☐ 37 C.F.R. 1.18 (issue fee at or be	fore mailing of Notice	of Allowance, pursuant to 37 C.F.R. 1.311(b))
12.	Instructions as to Overpayment ☐ Credit Account No. 50-1798 ☐ Refund		
		Respect	fully submitted,
Elever Boston Telepl Facsin	S & ONELLO LLP n Beacon Street, Suite 605 n, MA 02108 hone: (617) 994-4900 nile: (617) 742-7774 0487pattransltr.wpd	- ·	M. Mills ation Number 36,610 by for Applicant

Customer No.: 29344

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant(s):

Seung-hoon Lee

Filing Date:

Herewith

Title:

MAIN WORD DRIVER CIRCUIT RECEIVING NEGATIVE VOLTAGE

IN SEMICONDUCTOR MEMORY DEVICE

CERTIFICATE OF MAILING UNDER 37 C.F.R.§ 1.10

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12-30-03

Date

Chastopher Hren

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Sir:

Enclosed herewith for filing in the above-identified patent application please find the following listed items:

- 1. New Application Transmittal;
- 2. New Patent Application;
- 3. Executed Declaration, Petition and Power of Attorney;
- 4. Five (5) Sheets of Formal Drawings (Figures 1-5);
- 5. Certified Copy of Priority Document Korean Application No. 03-7413;
- 6. Check in the amount of \$770.00 to cover application filing fee;
- 7. Information Disclosure Statement;
- 8. Form PTO-1449;
- 9. Copy of cited references AA and AB;
- 10. Assignment Recordation Form Cover Sheet - PTO-1595;
- 11. Executed Assignment;
- 12. Check in the amount of \$40.00 to cover Assignment Recordation fee; and
- 13. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. <u>A duplicate copy of this letter is provided for this purpose</u>.

Date: Wecling (40) WW MILLS & ONELLO LLP

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Respectfully submitted,

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